**Resistance Network Lab – Score**

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|  | **Area** | **Expectation** | **2 pts/ expectation** |
| Equivalent Resistance | 1. Hand Calculations
 | Formula: Clearly shown formula for proposed network.  Formula is correct.  |  |
| Calculation: Clear presentation of hand calculations including  listing of starting values, calculation, and correct answer |  |
| 1. Series-Parallel Diagram
 | A computer drawn network schematic showing this network is included and properly format as a figure with caption. |  |
| 1. Series-Parallel Script
 | Includes a script and its execution to calculate the equivalent resistance of the network. |  |
| Provided script template is completely filled out (i.e., information added after all : ). Calculations are correct |  |
| Area & Parameter | 1. Equations
 | Clear and Correct presentation of the two equations and their basis |  |
| 1. Hand Calculations
 | Clear presentation of hand calculations including listing of starting values, formula, calculation and correct answer |  |
| 1. Script & Execution
 | Script is presented with comments that include: Header (with program name, purpose, author and date), Complete variable definition with particular attention to the inputs and outputs, Comments showing the logic of the code |  |
| Program logic and syntax are essentially correct  |  |
| Execution on the sample case included. Resulting outputs are correct results for area and parameter. |  |